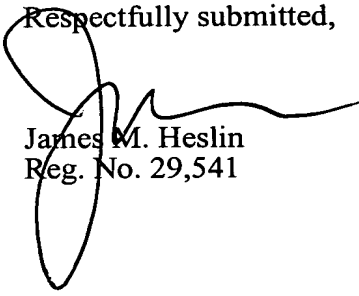<div align="center"><u>REMARKS</u></div>

Applicants request examination of the above-substitute claim set.

Attached is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned with "VERSION WITH MARKINGS TO SHOW CHANGES MADE."

If for any reason the Examiner believes that a telephone conference would in any way expedite prosecution of the subject application, the Examiner is invited to telephone the undersigned at 650-326-2400.

<div align="right">Respectfully submitted,</div>

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PATENT

VERSION WITH MARKINGS TO SHOW CHANGES MADE

1.   (Amended) A system for repositioning teeth from an initial tooth arrangement to a final tooth arrangement, said system comprising a plurality of dental incremental position adjustment appliances including:

a first appliance having a geometry selected to reposition the teeth from the initial tooth arrangement to a first intermediate arrangement;

one or more intermediate appliances having geometries selected to progressively reposition the teeth from the first intermediate arrangement to successive intermediate arrangements; and

a final appliance having a geometry selected to progressively reposition the teeth from the last intermediate arrangement to the final tooth arrangement, wherein at least some of the appliances are marked to indicate their order of use.

7.   (Amended) A method for repositioning teeth from an initial tooth arrangement to a final tooth arrangement, said method comprising:

placing a first incremental position adjustment appliance in a patient's mouth, wherein the first appliance has a geometry selected to reposition the teeth from the initial tooth arrangement to a first intermediate arrangement;

successively replacing one or more additional appliances, wherein the additional appliances have geometries selected to progressively reposition the teeth from the first intermediate arrangement to successive intermediate arrangements; and

placing a final appliance into the patient's mouth, wherein the final appliance has a geometry selected to progressively reposition the teeth from the last intermediate arrangement to the final tooth arrangement, wherein at least some of the appliances are marked to indicate their order of use.

Please cancel claims 14-21.

22.   (Amended) A method for producing a plurality of digital data sets representing a series of discrete tooth arrangements progressing from an initial to a final arrangement, said method comprising:

providing a computer system having at least once processor and memory;

5   providing <u>to the computer system an initial</u> [a] digital data set representing an

6   initial tooth arrangement;

7   providing <u>to the computer system a final</u> [a] digital data set representing a final

8   tooth arrangement;

9   producing a plurality of successive digital data sets based on <u>both of</u> the provided

10   <u>initial and final</u> digital data sets, wherein said plurality of digital data sets represent a series of

11   successive tooth arrangements progressing from the initial tooth arrangement to the final tooth

12   arrangement<u>; and</u>

13   <u>annotating the data sets to add text or numbering</u>.

1   24.   (Amended) A method as in claim 22, wherein the step of providing a

2   digital data set representing a final tooth arrangement comprises:

3   defining boundaries about at least some of the individual teeth <u>on a visual image</u>

4   <u>provided by the computer system</u>; and

5   moving at least some of the tooth boundaries relative to the other teeth in <u>the</u>

6   <u>visual</u> [an] image [based on the digital data set] to produce the final data set.

1   29.   (Amended) A method for fabricating a plurality of dental incremental

2   position adjustment appliances, said method comprising:

3   providing <u>an initial</u> [a] digital data set representing an initial tooth arrangement;

4   providing <u>a final</u> [a] digital data set representing a final tooth arrangement;

5   producing a plurality of successive digital data sets based on <u>both of</u> the <u>initial and</u>

6   <u>final</u> [provided] digital data sets, wherein said plurality of digital data sets represent a series of

7   successive tooth arrangements progressing from the initial tooth arrangement to

8   the final tooth arrangement; [and]

9   <u>annotating the data sets to add text or numbering;</u>

10   fabricating appliances based on at least some of the produced digital data sets<u>,</u>

11   <u>wherein the text or numbering appears on the appliances</u>.

1   39.   (Amended) A method for fabricating a dental appliance, said method

2   comprising:

3   providing a digital data set representing a modified tooth arrangement for a

4   patient<u>, said data set including text or numbering</u>;

5   controlling a fabrication machine based on the digital data set to produce a

6 positive model of the modified tooth arrangement, wherein the text or numbering appears on the

7 positive model; and

8   producing the dental appliance as a negative of the positive model, wherein the

9 text or numbering appears on the dental appliance.

1   42.   (Amended) A method for fabricating a dental appliance, said method

2 comprising:

3   providing a first digital data set representing a modified tooth arrangement for a

4 patient;

5   producing a second digital data set from the first data set, wherein the second data

6 set represents a negative model of the modified tooth arrangement; and

7   controlling a fabrication machine based on the second digital data set to produce

8 the dental appliance, wherein the appliance is marked with text or data.

         New claims 45-79 have been added.